

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Junbiao Zhang  
Filed : Herewith  
For : BROKER-BASED INTERWORKING USING  
HIERARCHICAL CERTIFICATES

PRELIMINARY AMENDMENT

Commissioner for Patents  
MAIL STOP PCT  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Sir:

In the US national phase application of PCT/US03/16546 filed  
herewith, please file the following amendments and enter remarks as follows:

**Amendments to the Specification** begin on page 2 of this paper.

**Listing and Amendments to the Claims** begin on page 3 of this paper.

**Amendments to the Abstract** begin on page 7 of this paper.

**Remarks** begin on page 8 of this paper.